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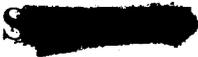
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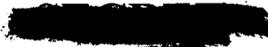
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<del>1010</del>	WHS	OSD Records Official	A Release Unlimited	S	N/A	N/A
1011	WHS	OSD Records Official	A Release Unlimited	C	N/A	N/A
1013	WHS	OSD Records Official	A Release Unlimited	C	N/A	N/A
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*Robert Storer*

- Enclosures:
1. DTIC request
  3. Six documents

Robert Storer  
 Chief, Records and Declassification Division

  
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HEADQUARTERS AIR MATERIEL COMMAND

WRIGHT FIELD, DAYTON, OHIO

11-M-1011-31  
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REEL - C

74

A.T.I.

2419

CONFIDENTIAL

1 October 1945

JB-3

ATT NO 2419 JB-1

Air Documents Division, T-2  
Wright Field  
Microfilm No.  
RC-74 F2419

Tiamat - Jet Bomb

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Description . . . . .	13-1-2	1 Aug 45
Characteristics . . . . .	13-1-3	
Tests and Operational Use . . . . .	13-1-4	1 Oct. 45
Training Program. . . . .	Not established	
Assembly, Maintenance and Test Equipment. . .	Not available	
Packaging and Shipping. . . . .	13-1-7	1 Aug. 45
Handling Equipment . . . . .	Not available	
Availability. . . . .	None	1 Oct. 45
Cost . . . . .	Unknown	
Comments . . . . .	13-1-11	1 Sept 45
Bibliography. . . . .	Not available	

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X-135461-AA

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JB-3

(Tiemat)

TEST AND OPERATIONAL USE . . . . . 13-1-4  
1 Oct 1945

1. Developmental Tests - Wind tunnel tests have been run in the five-foot tunnel at Wright Field and in the Free Flight Tunnel at NACA, Langley Field. Free-flight rocket-propelled model tests are now in progress at NACA, Langley Field. Tests of the first group of four Hughes JR-3's have been tested at Wendover Field, Utah. The first JB-3 test failed because of premature operation of the camera rescue parachute. The second JR-3 flew approximately a straight line controlled flight into the ground. The third JR-3 tumbled before the motor fired. The fourth had one or two seconds of controlled flight after the accelerating rocket failed to operate. The fifth JR-3 oscillated violently on its mount before release, rolled immediately after release and the rocket motor exploded after 15 seconds of flight. The sixth JB-3 flew in a steady 12° dive for its entire flight exhibiting fairly good stability. The seventh JR-3 developed a pre-launching oscillation and tumbled upon release. Its rocket motor exploded after 4 seconds. Both the oscillation experienced before launching and the rocket motor failures are expected to be eliminated in the near future. Flight data indicates that control rates in roll and pitch should be decreased. Sufficient tests have not been made to obtain performance data.

2. AAF Board Tests - None.

3. Theatre Tests - None.

4. Theatre Operational Use - None.

5. Future Testing Program - Tests on the aerodynamic configuration and control characteristics and to continue at Langley and Wendover. Variations of three and four winged missiles and swept-back wing missiles will be made at Langley. Difficulties in development of the radar seeker are being experienced and at this time a date cannot be set for the test of the JR-3 under seeker control. Tests of ten JR-3's with Flight Test Assemblies which simulate seeker control will begin approximately 15 January 1946.

6. NACA TESTS - The dummy and No. 1 instrumented model have been launched. Trouble was experienced in the phase of flight where the launching booster leaves the model due to instability of the booster unit. A new booster unit incorporating a single boosting rocket is now being designed around the Monsanto ACL-1 rocket.

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JB-3

AVAILABILITY . . . . . 13-1-9  
1 Oct 1945

1. The first seven JB-3's have been tested at Wendover Field, Utah. Three JB-3's are scheduled for delivery on 8 October 1945. These missiles are auto-pilot controlled and are set to fly a straight line trajectory.

2. Of the thirty-five (35) full scaled models planned, the NACA has six (6) under construction.

1 of 1

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X-75461-AA

REEL - C

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A.T.I.

2419

CONFIDENTIAL

TITLE: Tiamat - Jet Bomb

AUTHOR(S): Air Technical Service Command

ORIGINATING AGENCY: Air Technical Service Command, Wright Field, Dayton, O.

PUBLISHED BY: (Same)

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ABSTRACT:

The developmental tests and their results on the JB-3 Tiamat-jet bomb are described. The future testing program is outlined and the availability of the JB-3's is covered.

DISTRIBUTION: Copies of this report obtainable from Air Documents Division; Attn: MCIDXD

DIVISION: Guided Missiles (1)

SECTION: Performance (11)

SUBJECT HEADINGS: Missiles, Guided - Performance (63150);  
Missiles, Guided - Development (62920); JB-3 (62900)

ATI SHEET NO.: C-1-11-12

Air Documents Division, Intelligence Department  
Air Materiel Command

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Wright-Patterson Air Force Base  
Dayton, Ohio

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